

Monoclonal Antibody to Myosin (Heavy Chain) - Purified

Catalog No.: AM05488PU-N

Quantity: 0.2 mg

Concentration: 3.5 mg/ml

Background: Myosin II is the so called "classical" myosin, being the first type of myosin to be discovered. Myosin II forms bipolar filaments that interact with actin filaments to produce contraction. Myosin II was first isolated from muscle but is also found in non muscle cells, and it is especially enriched in highly motile cell types such as amoebae. The myosin II molecule is composed of two heavy chains and two sets of light chains. The light chains are the Essential Light Chains (ELC) and Regulatory Light Chains (RLC). Overall activity and polymerization can be modulated by phosphorylation on the light chains and the C terminus of the heavy chains respectively.

Host / Isotype: Mouse / IgG

Clone: TH10 (BGN/04/4410)

Immunogen: Heavy Chain Muscle Myosin

Format: **State:** Liquid purified IgG

Purification: Affinity chromatography on Protein A

Buffer System: Phosphate buffered saline containing 0.09% Sodium Azide (NaN₃)

Applications: ELISA.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody is specific for myosin heavy chain.

This antibody was raised against rabbit myosin heavy chain, but low level reactivity with human cardiac myosin has also been demonstrated.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Caution: (A full Health and Safety assessment is available upon request) This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.